TABLE B

**Preparation of 2,6-dimetylnaphthalene having a high purity by crystallization with methanol**

**COMPARISON WITH EXAMPLE 1 OF EP 0792858**

**CRYSTALLIZATION CARRIED OUT AT : 20 °C**

| | Initial charge | | % Methanol 100.0% | | Sol. 2,6 DMN 1.2% Mothers | | | Solid | | Wet/Solid 31.53% Wetting | | Panel | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | g | % DMN | g | % | g | % DMN | % | g | % DMN | g | % DMN | g | % DMN | % |
| MeOH | | | 100.00 | 100.00% | 92.11 | 166.76% | 62.51% | | | 7.89 | 166.76% | 7.89 | 17.63% | 14.99% |
| 2,6DMN | 48.73 | 48.73% | | | 8.01 | 14.50% | 5.44% | 40.03 | 100.00% | 0.69 | 14.50% | 40.72 | 90.96% | 77.33% |
| 1,5DMN | 8.54 | 8.54% | | | 7.87 | 14.24% | 5.34% | 0.00 | 0.00% | 0.67 | 14.24% | 0.67 | 1.51% | 1.28% |
| 1,6DMN | 41.12 | 41.12% | | | 37.88 | 68.57% | 25.71% | | | 3.24 | 68.57% | 3.24 | 7.25% | 6.16% |
| Other | 1.61 | 1.61% | | | 1.48 | 2.68% | 1.01% | | | 0.13 | 2.68% | 0.13 | 0.28% | 0.24% |
| Total DMN | 100.00 | | | | 55.23 | | | 40.03 | | 4.73 | | 44.77 | | |
| Overall total | | | 100.00 | | 147.34 | | | | | 12.62 | | 52.66 | | |

| Methanol (g) | 100 |
|---|---|

| Crystallization yield | 83.6% |
|---|---|

**Washing with methanol carried out at : 20 °C**

| | Washing | | Sol. 2,6 DMN 1.2% Washing liquid | | | Solid | | Wet/Solid 9.11% Wetting | | Panel | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | g | % | g | % DMN | % | g | % DMN | g | % DMN | g | % DMN | % |
| MeOH | 42.00 | 100.00% | 46.66 | 918.45% | 90.18% | | | 3.23 | 918.45% | 3.23 | 8.14% | 7.53% |
| 2,6DMN | | | 1.30 | 25.52% | 2.51% | 39.33 | 100.0% | 0.09 | 25.52% | 39.42 | 99.34% | 91.86% |
| 1,5DMN | | | 0.63 | 12.41% | 1.22% | 0 | 0.0% | 0.04 | 12.41% | 0.04 | 0.11% | 0.10% |
| 1,6DMN | | | 3.03 | 59.73% | 5.87% | | | 0.21 | 59.73% | 0.21 | 0.53% | 0.49% |
| Other | | | 0.12 | 2.34% | 0.23% | | | 0.01 | 2.34% | 0.01 | 0.02% | 0.02% |
| Total DMN | | | 5.08 | | | 39.33 | | 0.35 | | 39.69 | | |
| Overall Total | 42.00 | | 51.74 | | | | | 3.58 | | 42.92 | | |

| Overall Methanol (g) | 142.0 |
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| Crystallization yield | 80.9% |
|---|---|

DELTA LOSS -43.2%

Sol. 2,6 DMN means: solubility of solid 2,6-DMF in the solvent